Case 5424A

AMENDMENTS TO THE CLAIMS

- (Currently Amended) A method for nucleating syndiotactic polypropylene comprising the steps of:
- (a) providing a thermoplastic formulation comprising syndiotactic polypropylene;
- (b) introducing at least one nucleating agent therein, wherein said at least one nucleating agent exhibits nucleation properties within syndiotactic polypropylene such that it induces a crystallization temperature of at least 71°C for a thermoplastic formulation comprising from 70-75% by weight of syndiotactic polypropylene, when analyzed under a modified ASTM Test Method D-794-85 wherein the cooling rate is 20°C/min and such that the syndiotactic polypropylene comprises a combination of Cell II crystal structures and Cell III crystal structures, wherein the Cell II/Cell III content ratio is at least 45/55 as analyzed under a modified Test Method D-794-85 wherein the cooling rate is 20°C/min; and
 - (c) allowing the resultant formulation of step "b" to cool.
- 2. (New) The method as recited in claim 1, wherein following cooling the thermoplastic formulation exhibits haze characteristics of not greater than about 16% as measured using ASTM test method D 1003-92.
- 3. (New) The method as recited in claim 1, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 900 MPa as measured using ASTM test method D790-98, procedure B.

- 4. (New) The method as recited in claim 3, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 920 MPa as measured using ASTM test method D790-98, procedure B.
- 5. (New) The method as recited in claim 3, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 940 MPa as measured using ASTM test method D790-98, procedure B.
- 6. (New) The method as recited in claim 3, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 950 MPa as measured using ASTM test method D790-98, procedure B.
- 7. (New) The method as recited in claim 1, wherein said at least one nucleating agent comprises Cis-Calcium Hexahydrophthalate.
- 8. (New): The method as recited in claim 7, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 900 MPa as measured using ASTM test method D790-98, procedure B.
- 9. (New): The method as recited in claim 7, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 920 MPa as measured using ASTM test method D790-98, procedure B.

- 10. (New): The method as recited in claim 7, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 940 MPa as measured using ASTM test method D790-98, procedure B.
- 11. (New): The method as recited in claim 1, wherein said at least one nucleating agent comprises disodium bicyclo [2.2.1] heptane 2,3-dicarboxylate.
- 12. (New): The method as recited in claim 11, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 900 MPa as measured using ASTM test method D790-98, procedure B.
- 13. (New): The method as recited in claim 11, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 930 MPa as measured using ASTM test method D790-98, procedure B.
- 14. (New): The method as recited in claim 11, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 950 MPa as measured using ASTM test method D790-98, procedure B.

- 15. (New): A method for nucleating syndiotactic polypropylene comprising the steps of:
- (c) providing a thermoplastic formulation comprising syndiotactic polypropylene;
- one nucleating agent exhibits nucleation properties within syndiotactic polypropylene such that it induces a crystallization temperature of at least 71°C for a thermoplastic formulation comprising from 70-75% by weight of syndiotactic polypropylene, when analyzed under a modified ASTM Test Method D-794-85 wherein the cooling rate is 20°C/min and such that the syndiotactic polypropylene comprises a combination of Cell II crystal structures and Cell III crystal structures, wherein the Cell II/Cell III content ratio is at least 45/55 as analyzed under a modified Test Method D-794-85 wherein the cooling rate is 20°C/min; and
- (c) allowing the resultant formulation of step "b" to cool wherein following cooling the thermoplastic formulation exhibits haze characteristics of not greater than about 16% as measured using ASTM test method D 1003-92.
- 16. (New) The method as recited in claim 15, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 900 MPa as measured using ASTM test method D790-98, procedure B.

- 17. (New) The method as recited in claim 15, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 920 MPa as measured using ASTM test method D790-98, procedure B.
- 18. (New) The method as recited in claim 15, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 940 MPa as measured using ASTM test method D790-98, procedure B.
- 19. (New) The method as recited in claim 15, wherein following cooling the thermoplastic formulation is characterized by a flexural modulus of not less than about 950 MPa as measured using ASTM test method D790-98, procedure B.